

ABSTRACTED-PUB-NO: JP 63021093B

BASIC-ABSTRACT:

Prepn. of radioactive protoporphyrin-gold salt (I) by converting colloidal Au to AuCl₃ (radioactive), dissolving in MeCO₂H and reacting with C₅H₅N-CHCl₃ soln. of protoporphyrin (II), then purifying resulting salt by cation-exchange chromatography with methacrylate resin.

(I) has antitumour activity due to beta- and gamma-emission (Cf. Jap. 303644 clg. Cu and Co complexes).

(II) Obtd. by conversion of erythrocytes to haemin and this treated with Fe + HCO₂H, acc. to Jap. 303644. (II) reacted with AuCl₃, salt recd. by pptn. with H₂O and purified with methacrylate resin, buffered at pH 3-4; eluted with 0.1 M H₃PO₄ at pH 6.8 to give (II), then 0.1 M carbonate or borate at pH 8.5 to elute (I).

TITLE-TERMS: PROTOPORPHYRIN GOLD SALT

DERWENT-CLASS: B00

CPI-CODES: B04-B04; B05-A03; B05-A04; B12-G07;

CHEMICAL-CODES:

Chemical Indexing M0 *01*

Fragmentation Code

V792 A600 C811 C812 A940 A950 A980 C720 C730 A960
A970 C710 M630 N160 N000 P631 P633 P634 M411 M900

Chemical Indexing M0 *02*

Fragmentation Code

A600 A657 A672 A673 A674 A675 A676 A677 A678 A679
A800 A884 A885 A887 A888 A889 A890 A891 A892 A893
A894 A895 A896 A897 A898 A899 A940 A950 A960 A970
A980 A990 C710 C720 C730 C800 C801 C802 C803 C804
C805 C806 C807 C810 C811 C812 M210 M211 M212 M213
M214 M215 M216 M220 M221 M222 M223 M224 M225 M226
M231 M250 M261 M262 M263 M271 M272 M273 M280 M281
M282 M283 M311 M312 M313 M314 M315 M316 M320 M321
M322 M323 M332 M334 M340 M342 M343 M344 M349 M351
M352 M353 M361 M362 M363 M371 M372 M373 M381 M382

M383 M391 M392 M393 M411 M630 M710 M720 M730 M740
M750 M760 M781 M782 M903 N000 N160 P631 P633 P634
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